



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D *
5 S 057 1074 L134.10	647+84		3'-9"	7'-0"	11'-3" & VAR
5 S 057 1055 R156.20	645+76		5'-0"	7'-0" (EXISTING)	12'-6" & VAR
5 S 057 U055 R000.20	71+67		4'-7 1/2"	5'-3"	10'-4 1/2" & VAR

* See also "Sign Truss Mounting Details" Sheets 66-68 for the information needed to determine the variable walkway support & sign support lengths.

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10 1-20-11

FILE NAME =	USER NAME = ceerlookjd	DESIGNED - JAL	REVISED -
ar:\pw\work\pwidot\ceerlookjd\0266557-046179-sht-details.dgn	46179-sht-details.dgn	DRAWN -	REVISED -
PLOT SCALE = 48,0000 / 1 in.		CHECKED -	REVISED -
PLOT DATE = 10/7/2011		DATE - 04/26/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Various	178	79
CONTRACT NO. 46179				
ILLINOIS FED. AID PROJECT				

•VARIOUS COUNTIES
•D-5 OVD SIN STR REPL 2012-06